UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/830,007	04/20/2001	Gregory Michael Orme	GRIHAB P09AU	9400

7590   08/16/2004

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EXAMINER
SHIFERAW, ELENI A

ART UNIT	PAPER NUMBER
2136	

DATE MAILED: 08/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	09/830,007	ORME, GREGORY MICHAEL
	Examiner	Art Unit
	Eleni A Shiferaw	2136

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM
THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
  after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any
  earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _04202001_.

2a)☐ This action is **FINAL**.   2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is
closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _13-24_ is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _13-24_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☒ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage
application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _7/5/2001,4/20/2001_.

4)☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____ .
5)☐ Notice of Informal Patent Application (PTO-152)
6)☐ Other: _____.

DETAILED ACTION

1.   Claims 13-24 are presented for examination.

2.   The examiner considers the preliminary amendment filled on 04/20/2001.

Specification

3.   The following guidelines illustrate the preferred layout for the specification of a utility

application. These guidelines are suggested for the applicant's use.

Arrangement of the Specification

As provided in 37 CFR 1.77(b), the specification of a utility application should include

the following sections in order. Each of the lettered items should appear in upper case, without

underlining or bold type, as a section heading. If no text follows the section heading, the phrase

"Not Applicable" should follow the section heading:

(a) TITLE OF THE INVENTION.

(b) CROSS-REFERENCE TO RELATED APPLICATIONS.

(c) STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH OR

DEVELOPMENT.

(d) INCORPORATION-BY-REFERENCE OF MATERIAL SUBMITTED ON A

COMPACT DISC (See 37 CFR 1.52(e)(5) and MPEP 608.05. Computer program

listings (37 CFR 1.96(c)), "Sequence Listings" (37 CFR 1.821(c)), and tables

having more than 50 pages of text are permitted to be submitted on compact

discs.) or

REFERENCE TO A "MICROFICHE APPENDIX" (See MPEP § 608.05(a).

"Microfiche Appendices" were accepted by the Office until March 1, 2001.)

(e) BACKGROUND OF THE INVENTION.

(1) Field of the Invention.

(2) Description of Related Art including information disclosed under 37 CFR 1.97

and 1.98.

(f) BRIEF SUMMARY OF THE INVENTION.

(g) BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S).

(h) DETAILED DESCRIPTION OF THE INVENTION.

(i) CLAIM OR CLAIMS (commencing on a separate sheet).

(j) ABSTRACT OF THE DISCLOSURE (commencing on a separate sheet).

(k) SEQUENCE LISTING (See MPEP § 2424 and 37 CFR 1.821-1.825. A "Sequence

Listing" is required on paper if the application discloses a nucleotide or amino

acid sequence as defined in 37 CFR 1.821(a) and if the required "Sequence

Listing" is not submitted as an electronic document on compact disc).

Claim Rejections - 35 USC § 102

4.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed
in the United States before the invention by the applicant for patent or (2) a patent granted on an application for
patent by another filed in the United States before the invention by the applicant for patent, except that an
international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this
subsection of an application filed in the United States only if the international application designated the United
States and was published under Article 21(2) of such treaty in the English language.

5.   Claims 13-23 are rejected under 35 U.S.C. 102(e) as being anticipated by Kikuchi (Pup.

No.: U.S. 2003/0137994 A1).

6.   As per claim 13, Kikuchi teaches a method of compressing data including the steps of

providing a first package of data (Page 1 par. 0002),

        ordering the package of data into a plurality of groups of data comprising a plurality of

characters (Fig. 3A, 3B, and 4B),

        identifying predetermined patterns of characters from the plurality of patterns of

characters (Page 4 par. 0063),

        storing the location of each predetermined pattern of characters in memory (Page 1 par.

0020),

        performing a further mathematical operation on the plurality of patterns of characters to

produce a further plurality of patterns of characters (Page 4 par. [0071-0072]),

        identifying further predetermined patterns of characters from the further plurality of

patterns of characters (Page 4 par. [0072-0073]),

        storing the location of each further predetermined pattern of characters in memory (Page

1 par. 0020),

        processing each mathematical operation performed with the location of stored

predetermined patterns and further predetermined patterns and producing a second package of

data of a reduced number of characters which second package of data includes the number and

type of mathematical operations performed (Page 4 par [0067-0072]),

the location of stored predetermined patterns and further predetermined patterns and after

which mathematical operation then occurred, whereby the first package of data is retrievable

from the second package of data (Abstract).

7.   As per claim 14, Kikuchi teaches the method, further comprising the step of ordering the

first package of data into a plurality of groups of data comprising a plurality of numbers (Page 4

par. [0069-0072], Fig. 3A, 3B, and 3C).

8.   As per claim 15, Kikuchi teaches the method, further comprising the step of

representing each predetermined pattern by a symbol of reduced number of characters (Page 4

par. 0073).

9.   As per claim 16, Kikuchi teaches the method, further comprising the step of removing

each predetermined pattern of numbers from the plurality of patterns of numbers and storing

each predetermined pattern of numbers as a symbol with an associated address and associated

number representing the number of mathematical operations that occurred prior to the

predetermined patter of numbers being removed (Page 1 par. 0020, Fig. 3A, 3B, and 3C).

10.   As per claim 17, Kikuchi teaches the method, further comprising the step of inserting

a symbol representing a particular predetermined pattern in a group of data having a

predetermined pattern of characters (Page 1 par. 0015, page 4 par. 0063).

11.   As per claim 18, Kikuchi teaches the method, further comprising the step of producing

predetermined patterns of numbers after each mathematical operation are stored in a look-up

table whereby they can be retrieved in reverse order of entry into the look-up table (Page 4 par. 0070).

12.   As per claim 19, Kikuchi teaches the method, wherein the mathematical operation further comprises the step of subtracting a predetermined number from each group of characters (Page 4 par. 0067).

13.   As per claim 20, Kikuchi teaches the method, wherein the mathematical operation further comprises the step of comparing each group of numbers with a predetermined number and producing a number that is the difference (Page 3 par. 0058-page 4 par. 0059).

14.   As per claim 21, Kikuchi teaches the method, wherein the further mathematical operation further comprises the step of sorting each group of numbers after predetermined patterns of number have been stored, the sorting being in accordance with predetermined criterion (Page 1 par. 0020).

15.   As per claim 22, Kikuchi teaches the method, wherein the further mathematical operation further comprises shuffling groups of characters in accordance with a predetermined transformation (Fig. 3A, 3B, and 3C).

16.   As per claim 23, Kikuchi teaches the method, wherein the mathematical operation further comprises a transformation step whereby characters at predetermined positions are grouped together (Page 3 par. 0058-page 4 par. 0059).

17.   Claim 24 is rejected under 35 U.S.C. 102(e) as being anticipated by York (Patent No.: US

6,711,709 B1).

18.   As per claim 24, York teaches a method of encrypting data including the step of

providing a package of data (Abstract, Fig. 5),

        performing a mathematical operation on the package of data to create groups of data

comprising a plurality of patterns of characters (Col. 5 lines 65-col. Col. 6 lines 67, Fig. 6 A-F),

        identifying predetermined patterns of characters from the plurality of patterns of

characters (Col. 8 lines 37-64),

        storing in memory the mathematical operation performed and the location of each

predetermined pattern of characters (Col. 4 lines 30-67),

        repeating the steps a predetermined number of times to produce an encrypted package of

data (Col. 5 lines 35-67).

19.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Eleni A Shiferaw whose telephone number is 703-305-0326. The

examiner can normally be reached on Mon-Fri 8:00am-5:00pm.

        If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz R Sheikh can be reached on 703-305-9648. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Eleni Shiferaw
Art Unit 2136

EMMANUEL L. MOISE
PRIMARY EXAMINER